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AMENDMENT AND RESPONSE UNDER 37 CFR § 1.116
Serial Number: 10/706,356
Filing Date: November 11, 2003
Title: TECHNIQUES TO MAP AND DE-MAP SIGNALS

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IN THE CLAIMS

Please amend the claims as follows:

1. (Previously Presented) An apparatus to provide data based in part on a justification command, the apparatus comprising:
 - processor logic to selectively provide a justification command and data from an input signal;
 - a clock source to provide a first clock signal, wherein the clock source selectively modifies a phase of the first clock signal in response to the justification command; and
 - an elastic store device to selectively transfer the data based in part on the first clock signal,wherein the clock source comprises first, second, and third clock sources to respectively provide the first, a second, and a third clock signals; a transform device to modify the phase of the first clock signal in response to the justification command, to update a phase account to account for a phase impact of the justification command, and to update the phase account according to an amount of clock signal phase shift adjustment; and a phase comparator to modify the phase of the second clock signal based on a phase comparison of the first and third clock signals, wherein the processor logic is to selectively provide the justification command in response to a relative value of the phase comparison and a threshold value, wherein the clock source is to selectively maintain a ratio of the first clock signal to the third clock signal as approximately one in response to the justification command.
2. (Previously Presented) The apparatus of Claim of 1, wherein the clock source is to selectively add a cycle to the first clock signal in response to a negative justification command and a phase account value to allow a phase adaptation.
3. (Previously Presented) The apparatus of Claim 1, wherein the clock source is to selectively remove a cycle from the first clock signal in response to a positive justification command and a phase account value to allow a phase adaptation.

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4. (Previously Presented) The apparatus of Claim 1, wherein the processor logic is to perform forward error correction decoding in accordance with ITU-T G.975.
5. (Previously Presented) The apparatus of Claim 1, wherein the processor logic is to identify the justification command in compliance with ITU-T G.709.
6. (Original) The apparatus of Claim 1, wherein the input signal comprises an OTN frame.
7. (Canceled)
8. (Previously Presented) The apparatus of Claim 1, wherein the transform device is to selectively update a phase account to account for a phase impact of a negative justification command in response to a negative justification command.
9. (Previously Presented) The apparatus of Claim 8, wherein the transform device is to selectively update the phase account according to an amount of clock signal phase shift adjustment in response to a first value of the phase account to allow a phase adaptation.
10. (Previously Presented) The apparatus of Claim 9, wherein the transform device is to selectively wait for a next justification command in response to a second phase account value to allow a phase adaptation.
- 11-12. (Canceled)
13. (Previously Presented) The apparatus of Claim 1, wherein the transform device is to selectively wait for a next justification command.

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14. (Canceled) ~~The apparatus of Claim 1, wherein the clock source is to selectively maintain a ratio of the first clock signal to the third clock signal as approximately one in response to the justification command.~~

15. (Currently Amended) An apparatus to provide at least one justification command comprising:

an elastic store device to selectively transfer data based on a first clock signal;
a justification source to selectively provide a justification command based on a phase comparison between second and third clock signals;

a transform device to selectively modify the phase of the second clock signal in response to the justification command; and

a wrapper device to selectively combine the justification command with the data based on the first clock signal and to provide the combination, wherein the transform device is to selectively maintain a ratio of the second clock signal to the third clock signal as approximately one in response to the justification command.

16. (Previously Presented) The apparatus of Claim 15, wherein the transform device is to selectively add a cycle to the second clock signal in response to a negative justification command and a phase account value to allow a phase adaptation.

17. (Previously Presented) The apparatus of Claim 15, wherein the transform device is to selectively remove a cycle from the second clock signal in response to a positive justification command and a phase account value to allow a phase adaptation.

18. (Original) The apparatus of Claim 15, wherein the wrapper device is to perform forward error correction encoding in accordance with ITU-T G.975.

19. (Original) The apparatus of Claim 15, wherein the wrapper device is to provide the combination in accordance with ITU-T G.709.

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20. (Original) The apparatus of Claim 15, wherein the second clock signal is based on the first clock signal.
21. (Currently Amended) The apparatus of Claim 15, wherein the justification source is to selectively provide a positive justification command in response to a value, associated with ~~[[of]]~~ the phase comparison, exceeding a threshold value.
22. (Currently Amended) The apparatus of Claim 15, wherein the justification source is to selectively provide a negative justification command in response to a value, associated with ~~[[of]]~~ the phase comparison, the phase comparison being less than a threshold value.
23. (Previously Presented) The apparatus of Claim 15, further comprising a phase comparator to selectively provide the phase comparison, wherein the phase comparison is between the second and third clock signals.
24. (Previously Presented) The apparatus of Claim 15, wherein the transform device is to selectively update a phase account to account for a phase impact of a negative justification command in response to a negative justification command.
25. (Previously Presented) The apparatus of Claim 24, wherein the transform device is to selectively update the phase account according to an amount of clock signal phase shift adjustment in response to a first value of the phase account to allow a phase adaptation.
26. (Previously Presented) The apparatus of Claim 25, wherein the transform device is to selectively wait for a next justification command in response to a second value of the phase account to allow a phase adaptation.
27. (Previously Presented) The apparatus of Claim 15, wherein the transform device is to selectively update a phase account to account for a phase impact of a positive justification command in response to a positive justification command.

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28. (Previously Presented) The apparatus of Claim 27, wherein the transform device is to selectively update the phase account according to the amount of clock signal phase shift adjustment.

29. (Previously Presented) The apparatus of Claim 28, wherein the transform device is to selectively wait for a next justification command.

30. (Canceled) ~~The apparatus of Claim 15, wherein the transform device is to selectively maintain a ratio of the second clock signal to the third clock signal as approximately one in response to the justification command.~~

31. (Currently Amended) A method to provide data based in part on a justification command comprising:

selectively extracting a justification command and data from an input signal;

selectively modifying a phase of a first clock signal in response to the justification command, wherein the justification command is provided based on a phase comparison between second and third clock signals and in response to a relative value of the phase comparison and a threshold value;

selectively transferring the data based in part on the first clock signal;

selectively modifying the phase of the second clock signal in response to the justification command; [[and]]

selectively combining the justification command with the data based on the first clock signal; and

selectively maintaining a ratio of the first clock signal to the third clock signal as approximately one in response to the justification command.

32. (Original) The method of Claim 31, wherein the modifying comprises selectively adding a cycle to the first clock signal in response to a negative justification command and the number of accounted-for bits being low enough to allow a phase adaptation.

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33. (Original) The method of Claim 31, wherein the modifying comprises selectively removing a cycle from the first clock signal in response to a positive justification command and the number of accounted-for bits being enough to allow a phase adaptation.
34. (Original) The method of Claim 31, wherein the input signal comprises an OTN frame.
35. (Currently Amended) A method to provide a justification command comprising:
selectively transferring data based on a first clock signal;
selectively providing a justification command based on a phase comparison between second and third clock signals;
selectively modifying the phase of the second clock signal in response to the justification command; [[and]]
selectively combining the justification command with the data based on the first clock signal; and
selectively maintaining a ratio of the first clock signal to the third clock signal as approximately one in response to the justification command.
36. (Original) The method of Claim 35, wherein the modifying comprises selectively adding a cycle to the second clock signal in response to a negative justification command and a phase account being low enough to allow a phase adaptation.
37. (Original) The method of Claim 35, wherein the modifying comprises selectively removing a cycle from the second clock signal in response to a positive justification command and a phase account being enough to allow a phase adaptation.
38. (Currently Amended) A system to provide data based in part on a justification command comprising:
an interface;

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a data processor communicatively coupled with the interface and to selectively provide a justification command and data from an input signal;

a clock source to provide a first clock signal, wherein the clock source selectively modifies a phase of the first clock signal in response to the justification command; and

an elastic store device to selectively transfer the data based in part on the first clock signal,

wherein the clock source comprises first, second, and third clock sources to respectively provide the first, a second, and a third clock signals; a transform device to update a phase account to account for a phase impact of the justification command and to update the phase account according to an amount of clock signal phase shift adjustment; and a phase comparator to modify the phase of the second clock signal based on a phase comparison of the first and third clock signals, wherein the data processor is to selectively provide the justification command in response to a relative value of the phase comparison and a threshold value, wherein the interface comprises an XAUI interface.

39. (Canceled) ~~The system of Claim 38, wherein the interface comprises an XAUI interface.~~

40. (Previously Presented) The system of Claim 38, wherein the interface comprises an IEEE 1394 interface.

41. (Previously Presented) The system of Claim 38, wherein the interface comprise a PCI interface.

42. (Original) The system of Claim 38, wherein the data processor is to perform media access control in compliance with IEEE 802.3.

43. (Original) The system of Claim 38, wherein the data processor is to perform optical transport network de-framing in compliance with ITU-T G.709.

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44. (Original) The system of Claim 38, wherein the data processor is to perform forward error correction processing in compliance with ITU-T G.975.
45. (Original) The system of Claim 38, further comprising a switch fabric coupled to the interface.
46. (Original) The system of Claim 38, further comprising a packet processor coupled to the interface.
47. (Original) The system of Claim 38, further comprising a memory device coupled to the interface.
48. (Currently Amended) A system to provide a justification command comprising:
an interface;
an elastic store device communicatively coupled with the interface and to selectively transfer data in response to a first clock signal;
a justification source to selectively provide a justification command based on a phase comparison between second and third clock signals, wherein the justification source is to selectively provide the justification command in response to a relative value of the phase comparison and a threshold value;
a transform device to selectively modify the phase of the second clock signal in response to the justification command; and
a wrapper device to selectively combine the justification command with the data based on the first clock signal and to provide the combination; and
a data processor communicatively coupled with the interface and the wrapper device, wherein the interface comprises an XAUI interface.
49. (Canceled) ~~The system of Claim 48, wherein the interface comprises an XAUI interface.~~

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50. (Previously Presented) The system of Claim 48, wherein the interface comprises an IEEE 1394 interface.
51. (Previously Presented) The system of Claim 48, wherein the interface comprises a PCI interface.
52. (Cancelled)
53. (Previously Presented) The system of Claim 48, wherein the data processor is to perform optical transport network framing in compliance with ITU-T G.709.
54. (Original) The system of Claim 48, wherein the data processor is to perform forward error correction processing in compliance with ITU-T G.975.
55. (Original) The system of Claim 48, further comprising a switch fabric coupled to the interface.
56. (Original) The system of Claim 48, further comprising a packet processor coupled to the interface.
57. (Original) The system of Claim 48, further comprising a memory device coupled to the interface.